



# Automotive Safety Engineering Pty Ltd

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## FUEL TANK TEST

All fuel tanks for a Commercial Vessel are to be tested to a pressure of 24.525kPa or 2.5m water or 3.6psi. The pressure for the test may be measured by means of a Liquid Manometer or a Pressure Gauge. When a pressure gauge is used, care must be taken to prevent the over-pressuring of the compartment.

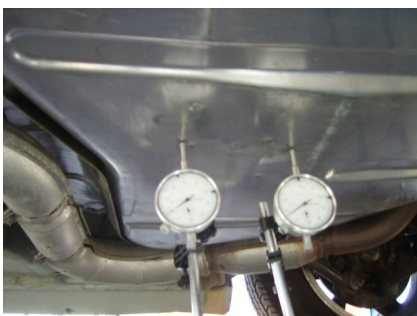


A fuel tank test requires precise deflection measurement of a top and bottom surface of a supplied fuel tank. The readings must be taken under a specified pressure/vacuum inside the fuel tank. The fuel tank must also be fully sealed in order to prevent a reading error.



The vehicle must be fitted on vehicle stands, this is to prevent suspension movements and it must also be placed in a levelled horizontal position.

Air is applied to the tank until the required test pressure is achieved. The air is then shut off and all welded seams, joints and connections are tested with soapy water to determine if there are any leaks and the positions of the leaks. Where leaks do occur, the leak area is to be re-welded, and on completion, the air test repeated. This operation is to be repeated if necessary until no further leaks are observed.



The deflection of the fuel tank is to be recorded in four points. Two point is underneath the fuel tank and two points above the fuel tank in line with the fuel level tank measuring gauge. The dial indicators must not be attached to the vehicle floor as it might deflect when the fuel tank expands.

